

“A geologic mapping education component, whose objective shall be—

“(A) to develop the academic programs that teach earth-science students the fundamental principles of geologic mapping and field analysis; and

“(B) to provide for broad education in geologic mapping and field analysis through support of field teaching institutes.

Investigations conducted under the geologic mapping education component shall be integrated with the other mapping components of the geologic mapping program, and shall respond to priorities identified for those components.”

1994—Subsec. (b)(1)(A), (C). Pub. L. 103-437 substituted “Natural Resources” for “Interior and Insular Affairs” before “of the House”.

#### SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in sections 31b, 31f of this title.

### § 31d. Advisory committee

#### (a) Establishment

##### (1) In general

There shall be established a 10-member geologic mapping advisory committee to advise the Director on planning and implementation of the geologic mapping program.

##### (2) Members *ex officio*

Federal agency members shall include the Administrator of the Environmental Protection Agency or a designee, the Secretary of Energy or a designee, the Secretary of Agriculture or a designee, and the Assistant to the President for Science and Technology or a designee.

##### (3) Appointed members

Not later than 90 days after August 5, 1997, in consultation with the Association, the Secretary shall appoint to the advisory committee two representatives from the Survey (including the Chief Geologist, as Chairman), two representatives from the State geological surveys, one representative from academia, and one representative from the private sector.

#### (b) Duties

The advisory committee shall—

(1) review and critique the draft implementation plan prepared by the Director pursuant to section 31e of this title;

(2) review the scientific progress of the geologic mapping program; and

(3) submit an annual report to the Secretary that evaluates the progress of the Federal, State, and university mapping activities and evaluates the progress made toward fulfilling the purposes of sections 31a to 31h of this title.

(Pub. L. 102-285, § 5, May 18, 1992, 106 Stat. 169; Pub. L. 105-36, § 3(c), Aug. 5, 1997, 111 Stat. 1110.)

#### AMENDMENTS

1997—Subsec. (a). Pub. L. 105-36, § 3(c)(1), added subsec. (a) and struck out heading and text of former subsec. (a). Text read as follows: “There shall be established a sixteen member geologic mapping advisory committee to advise the Director on planning and implementation of the geologic mapping program. The President shall appoint one representative each from the Environmental Protection Agency, the Department of Energy, the Department of Agriculture, and the Office of Science and Technology Policy. Within 90 days

and with the advice and consultation of the State Geological Surveys, the Secretary shall appoint to the advisory committee 2 representatives from the Survey (including the Chief Geologist, as Chairman), 4 representatives from the State geological surveys, 3 representatives from academia, and 3 representatives from the private sector.”

Subsec. (b)(3). Pub. L. 105-36, § 3(c)(2), substituted “Federal, State, and university mapping activities” for “Federal and State mapping activities”.

#### TERMINATION OF ADVISORY COMMITTEES

Advisory committees established after Jan. 5, 1973, to terminate not later than the expiration of the 2-year period beginning on the date of their establishment, unless, in the case of a committee established by the President or an officer of the Federal Government, such committee is renewed by appropriate action prior to the expiration of such 2-year period, or in the case of a committee established by Congress, its duration is otherwise provided by law, see section 14 of Pub. L. 92-463, Oct. 6, 1972, 86 Stat. 776, set out in the Appendix to Title 5, Government Organization and Employees.

#### SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in sections 31b, 31c of this title.

### § 31e. Geologic mapping program implementation plan

The Secretary, acting through the Director, shall, with the advice and review of the advisory committee, prepare an implementation plan for the geologic mapping program. The plan shall identify the overall management structure and operation of the geologic mapping program and shall provide for—

(1) the role of the Survey in its capacity as overall management lead, including the responsibility for developing the national cooperative geologic mapping program that meets Federal needs while simultaneously fostering State needs;

(2) the responsibilities accruing to the State geological surveys, with particular emphasis on mechanisms that incorporate their needs, missions, capabilities, and requirements into the nationwide geologic mapping program;

(3) mechanisms for identifying short- and long-term priorities for each component of the geologic mapping program, including—

(A) for the Federal geologic mapping component, a priority-setting mechanism that responds both to (i) Federal mission requirements for geologic-map information, and (ii) critical scientific problems that require geologic-map control for their resolution;

(B) for the geologic mapping support component, a strong interdisciplinary research program plan in isotopic and paleontologic geochronology, geophysical mapping, and process studies to provide data to and interpret results from geologic mapping;

(C) for the State geologic mapping component, a priority-setting mechanism that responds to—

(i) specific intrastate needs for geologic-map information; and

(ii) interstate needs shared by adjacent entities that have common requirements; and

(D) for the geologic mapping education component, a priority-setting mechanism

that responds to requirements for geologic-map information that are driven by Federal and State mission requirements;

(4) a mechanism for adopting scientific and technical mapping standards for preparing and publishing general-purpose and special-purpose geologic maps to—

(A) ensure uniformity of cartographic and scientific conventions; and

(B) provide a basis for judgment as to the comparability and quality of map products; and

(5) a mechanism for monitoring the inventory of published and current mapping investigations nationwide in order to facilitate planning and information exchange and to avoid redundancy.

(Pub. L. 102-285, § 6, May 18, 1992, 106 Stat. 170; Pub. L. 105-36, § 3(d), Aug. 5, 1997, 111 Stat. 1110.)

#### AMENDMENTS

1997—Par. (1). Pub. L. 105-36, § 3(d)(1), inserted “cooperative” after “national”.

Par. (3)(C). Pub. L. 105-36, § 3(d)(2), added subpar. (C) and struck out former subpar. (C) which read as follows: “for the State geologic mapping component, a priority-setting mechanism that responds to (i) specific intrastate needs for geologic-map information, and (ii) interstate needs shared by adjacent entities that have common requirements; and”.

Pars. (4) to (6). Pub. L. 105-36, § 3(d)(3), (4), added par. (4), redesignated par. (6) as (5), and struck out former pars. (4) and (5) which read as follows:

“(4) a description of the degree to which the Survey can acquire, archive, and use Side-Looking Airborne Radar (SLAR) or Interferometric Synthetic Aperture Radar (IFSAR) data in a manner that is technically appropriate for geologic or related mapping studies;

“(5) a mechanism for adopting scientific and technical map standards for preparing and publishing general-purpose and special-purpose geologic maps to (A) assure uniformity of cartographic and scientific conventions, and (B) provide a basis for judgment as to the comparability and quality of map products; and”.

#### SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in sections 31c, 31d of this title.

### § 31f. National geologic-map data base

#### (a) Establishment

The Survey shall establish a national geologic-map data base. Such data base shall be a national archive that includes all maps developed pursuant to sections 31a to 31h of this title, the data bases developed pursuant to the investigations under sections 31c(d)(2)(C), (D), (E), and (F) of this title, and other maps and data as the Survey deems appropriate.

#### (b) Standardization

##### (1) In general

Geologic maps contributed to the national archives shall have format, symbols, and technical attributes that adhere to standards so that archival information can be accessed, exchanged, and compared efficiently and accurately, as required by Executive Order 12906 (59 Fed. Reg. 17,671 (1994)), which established the National Spatial Data Infrastructure.

##### (2) Development of standards

Entities that contribute geologic maps to the national archives shall develop the stand-

ards described in paragraph (1) in cooperation with the Federal Geographic Data Committee, which is charged with standards development and other data coordination activities as described in Office of Management and Budget revised Circular A-16.

(Pub. L. 102-285, § 7, May 18, 1992, 106 Stat. 171; Pub. L. 105-36, § 3(e), Aug. 5, 1997, 111 Stat. 1110.)

#### REFERENCES IN TEXT

Executive Order 12906, referred to in subsec. (b)(1), is set out as a note under section 1457 of this title.

#### AMENDMENTS

1997—Subsec. (b). Pub. L. 105-36 added subsec. (b) and struck out heading and text of former subsec. (b). Text read as follows: “Geologic maps contributed to the national archives should have standardized format, symbols, and technical attributes so that archival information can be assimilated, manipulated, accessed, exchanged, and compared efficiently and accurately.”

#### SECTION REFERRED TO IN OTHER SECTIONS

This section is referred to in section 31c of this title.

### § 31g. Annual report

The Secretary shall, within 90 days after the end of each fiscal year, submit an annual report to the Committee on Resources of the House of Representatives and the Committee on Energy and Natural Resources of the Senate describing the status of the nationwide geologic mapping program and describing and evaluating the progress achieved during the preceding fiscal year in developing the national geologic-map data base. Each report shall include any recommendations for legislative or other action as the Secretary deems necessary and appropriate to fulfill the purposes of sections 31a to 31h of this title.

(Pub. L. 102-285, § 8, May 18, 1992, 106 Stat. 171; Pub. L. 103-437, § 16(a)(1), Nov. 2, 1994, 108 Stat. 4594; Pub. L. 105-36, § 3(f), Aug. 5, 1997, 111 Stat. 1111.)

#### AMENDMENTS

1997—Pub. L. 105-36 substituted “Committee on Resources” for “Committee on Natural Resources” and “program and describing and evaluating the progress” for “program, and describing and evaluating progress”.

1994—Pub. L. 103-437 substituted “Natural Resources” for “Interior and Insular Affairs” before “of the House”.

### § 31h. Authorization of appropriations

#### (a) In general

There are authorized to be appropriated to carry out the national cooperative geologic mapping program under sections 31a to 31h of this title—

- (1) \$26,000,000 for fiscal year 1998;
- (2) \$28,000,000 for fiscal year 1999; and
- (3) \$30,000,000 for fiscal year 2000.

#### (b) Allocation of appropriated funds

##### (1) In general

Of the amount of funds that are appropriated under subsection (a) of this section for any fiscal year up to the amount that is equal to the amount appropriated to carry out the national cooperative geologic mapping program for fiscal year 1996—